Table A.3.10. Central Yard AOC 22 Summary of Boring Log and Analytical Data

Boring/ Date/ Report	Total Depth of Boring	Depth to Water[1]	Lithologic Description[2] (Observation Notes)	Maximum PID Response, ppm_v (Depth)	Sample Type[3]	Sample ID (depth)	Analyses[4]	COC Concentrations greater than Delineation Criteria
S1434/ MW168 2/5/03 Full RFI (2nd Iteration) SWMU 34	16	8	Fill: 0-14.5: (wood at 4.8-5') Sand: 14.5-16	0	P, S, F	S1434H1 (14-14.5) Duplicate: D0205032	V, S, M	None
					P, S, N	S1434H2 (14.5-15	V, S, M	None
					Water	MW168 4/17/03	V, S, M, water quality	None
S1433/ MW167 2/3/03 Full RFI (2nd Iteration) AOC 22	20	4	Fill: 0-16 Sand: 16-18 Silt: 18-20	0.4 (5.5-6 and 10.5-11)	O, S, F	S1433H4 (15.5-16)	V, S, M	None
					O, S, N	S1433I1 (16-16.5)	V, S, M	Iron: 26000 mg/kg
					Water	MW167 4/10/03	V, S, M, water quality	1,1,1-Trichloroethane: 45 ug/L 1,1-Dichloroethane: 75 ug/L 1,1-Dichloroethene: 3J ug/L
S0971 12/16/02 PAOC 25	16	7.5	Fill: 0-15 Silt: 15-16	0	O, U, F	S0971D3 (7-7.5)	V, S, M	Iron: 26000 mg/kg
S0970 12/12/03 PAOC 25	12	6	Fill: 0-7 Sand: 7-12	1.4 (9-10)	P, S, N	S0970E3 (9-9.5)	V, S, M	None
S0912 11/22/02 PAOC 89	12	6	Fill: 0-11.5 (white clay at 11-11.5) Clay: 11.5-12	0	P, S, N	S0912F4 11.5-12)	V, S, M	None
S0911 11/22/02 PAOC 89	12	4	Fill: 0-7.5 Clay: 7.5-12	0	P, S, F	S0911C1 (4-4.5)	V, S, M	None

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Boring/ Date/ Report	Total Depth of Boring	Depth to Water[1]	Lithologic Description[2] (Observation Notes)	Maximum PID Response, ppm_v (Depth)	Sample Type[3]	Sample ID (depth)	Analyses[4]	COC Concentrations greater than Delineation Criteria
S0733/ MW102 7/9/02 Full RFI AOC 22	14	2	Fill: 0-4.5 (petroleum odor 2.5 - 4) Clay: 4.5-14	90 (8-8.5)	P, U, F	S0733A2 (0.5-1)	V,S,M	None
					P, S, N	S0733D2 (6.5-7)	SPLP metals	Aluminum: 2.64 mg/L
					P, S, N	S0733 (6-8)	Phys. Char.	
					P, S, N	S0733E1 (8-8.5)	V, S, M	Iron: 24900 mg/kg
					P, S, N	S0733G2 (12.5-13)	V, S, M	None
					Water	MW102 (10/14/02)	V, S, M, water quality	1,1-Dichloroethene: 9J ug/L **Benzene: 1700 ug/L** Cyclohexane: 170 ug/L Ethylbenzene: 3600 ug/L Toluene: 6500 ug/L Xylenes: 25000 ug/L Naphthalene: 680J ug/L Arsenic: 9.7 ug/L Multiple unknown TICs: 3800J ug/L (max.)
H0161 8/24/98 AOC 22					Water	HP151LF (HP161B)	M	Arsenic: 224 (47.8) ug/L Beryllium: 33 (16.2) ug/L Cadmium: 7.1 (5.7) ug/L Chromium: 630 (183) ug/L Cobalt: 743 (1280) ug/L Copper: 11500 (6590) ug/L Lead: 342 (183) ug/L Nickel: 11200 (9080) ug/L Mercury: 4.4 (2.3) ug/L Vanadium: 2180 (350) ug/L

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Boring/ Date/ Report	Total Depth of Boring	Depth to Water[1]	Lithologic Description[2] (Observation Notes)	Maximum PID Response, ppm_v (Depth)	Sample Type[3]	Sample ID (depth)	Analyses[4]	COC Concentrations greater than Delineation Criteria
MW0044 2/6/98 Sitewide groundwater	20	7.83	Fill: 0-13.4: (concrete fragments) Clay: 13.4-20	0	Water	MW0044 (10/22/02)	V, S,M, water quality	1,1-Dichloroethene: 220 ug/L 1,1,1-Trichloroethane: 2100 ug/L Tetrachloroethene: 37 ug/L Trichloroethene: 34 ug/L Bis(2ethylhexyl)phthalate: 91 ug/L Nickel: 162 ug/L
HP0014 2/19/96 1st Soils AOC 22	6	3	Fill: 0-5: (petroleum odor, sheen on spoon at 2-8) Sand: 5-8 (sheen on spoon)	585 (5-6)	Water	HP-0014-A	V, S, M	**Benzene: 8000 ug/L** Ethylbenzene: 5,000 ug/L Toluene: 18000 ug/L Xylenes: 26000 ug/L Dibenz(a,h)anthracene: 18 ug/L Pyrene: 200 ug/L Antimony: 81.6 ug/L Arsenic: 1080 ug/L Barium: 4950 ug/L Beryllium: 51 ug/L Cadmium: 35 ug/L Chromium: 469 ug/L Lead: 5410 ug/L Mercury: 10.4 ug/L Nickel: 1410 ug/L
HP0013 2/19/96 1st Soils AOC 22	8	3	Fill: 0-1: Silt: 1-8 (petroleum odor and staining at 1-4; sheen on spoon, petroleum odor at 4-8)	120 (5-6)	Water	HP0013A	V, S, M	**Benzene: 6800 ug/L** Ethylbenzene 2600 ug/L Xylenes 7800 ug/L Antimony 36.4 ug/L Arsenic 506 ug/L Cadmium 51.6 ug/L Chromium 740 ug/L Lead 11800 ug/L Mercury 4.2 ug/L Nickel 1260 ug/L

NOTES:

Benzene and benzo(a)pyrene are highlighted in bold because they are indicator constituents of concern (COCs)

Shaded rows indicate samples collected from nearby SWMUs/AOCs

ppm_v = parts per million (volume basis)

All depths referenced on this summary table are in feet below the ground surface.

PID = Photoionization detector.

ID = Identifier.

mg/kg = milligrams per kilogram (equivalent to parts per million).

µg/L = micrograms per liter (equivalent to parts per million).

[1]Depth to water as observed during borehole advancement.

[2]"Fill" encountered within the completed borings was characteristically described as an asphalt layer (typical) underlain by a heterogeneous gravel to clay mixture of unconsolidated materials, ranging in color from tan to gray with occasional construction debris (e.g., brick) present. In some locations, the fill material is further characterized by containing a slag or beaded material, in which case it is noted within the table. Also noted on the table are any other olfactory or visual observations that indicate potential petroleum-type impacts within the fill unit were observed.

[3]P – property boundary, O – on-site, U – unsaturated, S – saturated, F – fill, N – native. "None" indicates that no sample was collected.

[4]V – VOCs, S – SVOCs, M – metals, Pb – lead, TOL – total organic lead, TEL – tetraethyl lead, TPH – Total Petroleum Hydrocarbons; SPLP -- Synthetic Precipitation Leaching Procedure; -Phys. Char. -- physical characteristics.